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# DYLAN MAXWELL REILLY

 dreilly@atariland.net  
 +1 (860) 655 9495

<http://atariland.net>   
dylanmaxwellreilly 

## FEATURED SKILLS

- C++
- Swift
- Java
- Objective-C
- C#
- Python
- 3D graphics
- GLSL shaders
- Git, SVN
- Game development
- Team lead
- iOS
- Android
- Linux
- Amazon AWS
- NoSQL/Couchbase
- MySQL
- REST web services
- Bluetooth (BTLE)
- Arduino
- Raspberry Pi
- Embedded devices
- High availability
- Linux
- MATLAB
- Agile/Scrum
- Kickstarter

## WORK EXPERIENCE

### CHIEF TECHNOLOGY OFFICER

JAN 2016 - PRESENT

Oscilloscope

- Drive technical innovation, direction, and implementation of novel technology for processing audio using neural networks that resonate to acoustic signals.
- Architect and develop formal software implementations of existing research-derived algorithms and processes.
- Engineer (hardware and software) embedded devices for rhythm detection and visualization.
- Draft design documents, source hardware components, and contribute to creative process for product launch.
- Design and develop first commercial product, Synchrony, and play a key role in development and role-out of product Kickstarter campaign.

### LEAD MOBILE GAME ENGINEER

JAN 2008 – DEC 2015

Venan Entertainment

- Lead small (2 – 5 person) teams of mobile game developers through rapid development cycles (6 – 18 months).
  - Architect and implement game engine, 2D and 3D visuals, AI, tools, and game server systems for free-to-play and traditional titles.
  - Work closely with designers and artists to usher games from concept to released product.
  - Published titles as lead developer: *Space Miner Wars* (Venan), *RoadTrippin'* (EA Mobile), *NBA Elite 11* (EA Mobile), *Sonic at the Olympic Winter Games* (SEGA USA), and *Monopoly: Here and Now* (EA mobile).
  - Published titles as game engine developer: *Book of Heroes* (Venan), *Ninjatown Trees of Doom* (Venan), *Space Miner Blast* (Venan), and *Space Miner Blast* (Venan).
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## MULTIMEDIA DEVELOPER

MAY 2012 - APRIL 2013

Reality Interactive

- Engineer custom multimedia experiences for top brand companies such as *Time Warner Cable* and *BMW*.
- Integrate all layers of technology from customer experience down to server architecture.
- Design frameworks for minimum spin-up time and maximum reuse.

## BIOINFORMATICS DEVELOPER

AUGUST 2005 – DECEMBER 2007

HistoRx

- Engineer, design, architect, and implement a graphical application suite to automate tissue/cell analysis.
- Integrate third party fluorescence microscopy hardware with custom software. Massive tissue microarray (TMA) and whole tissue section (WTS) data sets collected and analyzed in a “one-click” process using cell morphology and bio-marker quantization.
- Advance technology development up through FDA medical device certification.
- Develop and implement new analysis algorithms.
- Design and implement hardware to software interface and GUI's. Manipulate and analyze high precision images.

## INTERNET DEVELOPER

JULY 2000 – AUGUST 2005

IBM Global Services

- Open Infrastructure Offerings: Spearhead development of multinational, high-profile, enterprise Java application. Estimated savings of billions of dollars to global operations cost and return on investments.
- HorizonAG: Project lead for a web portal used to manage IP-protected seed products.
- Smart Card Management Services: Develop, expand and enhance a base framework into an application capable of managing millions of cards. Design, create, and implement a client and server through which a user can interact with their personal SmartCard via a PC or kiosk.

## PATENTS AND PUBLICATIONS

- Patent: *Compartment segregation by pixel characterization using image data clustering* (8,655,037), Feb 2014, HistoRx, Inc.
- Patent: *Automatic exposure time selection for imaging tissue* (8,878,983), Nov 2014, HistoRx, Inc.
- Patent: *Smart card data transaction system and methods for providing high levels of storage and transmission security*(7,380,125), May 2008, IBM.
- *Development of an unsupervised pixel-based clustering algorithm for compartmentalization of immunohistochemical expression using Automated QUantitative Analysis*. July 2009.
- *Standardization of HER2 immunohistochemistry in breast cancer by automated quantitative analysis*. September 2009.

## EDUCATION

**Masters in Mathematics:** Western Connecticut State University, Danbury, CT (March 2006)

**Bachelor in Physics:** Wesleyan University, Middletown, CT (May 2000)

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